

PATENT ABSTRACTS OF JAPAN

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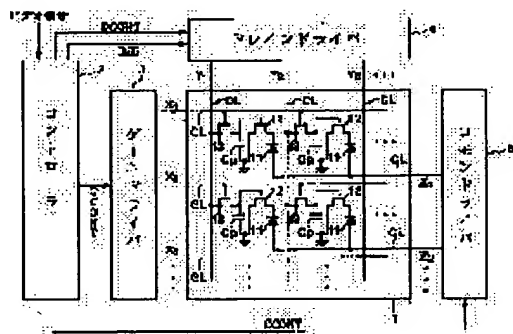
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(54) DISPLAY DEVICE AND ITS DRIVING METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a uniform quantity of emission for every picture element and every panel and improve the grade of an image.

SOLUTION: A controller 2 reserves binary-expressed image signals in units of one frame. The controller 2 divides one frame into plural sub-fields representing an image displayed by 2-gradation image data in accordance with the respective digit values of the image signals for one reserved frame. The 2-gradation image data for every sub-frame are written from a drain driver 4 into a gate for a driving transistor 12 for every digit in accordance with the selection of a gate driver 3. When the image data is 1, the driving transistor 12 is turned on. A common driver 5 applies no less than threshold value of voltage on a organic EL element 11 to a row, where selection is finished by the gate driver 4, for a predetermined time period, depending on the sub-fields for emission of the organic EL element 11. Images in the respective sub-fields are visually composited to express gradation in one frame.



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